

What is claimed is:

1           1. An information processing device configured with at  
2   least one interface section enabling a wake-up instruction  
3   for starting up operationally stopped functional units in a  
4   power-off state or a suspend state, a man-machine interface,  
5   a memory, and a processor, connected by a chipset having a  
6   bus control function, the information-processing device  
7   characterized in that:

8           operational mode for the functional units when started  
9   up from either said power-off state or said suspend state  
10   being a normal operational mode use-enabling the functional  
11   units in their entirety including the man-machine interface,  
12   and an exclusive operational mode use-enabling some of the  
13   functional units on starting up from either said power-off  
14   state or said suspend state, including said interface  
15   section having executed a wake-up instruction, said memory,  
16   said processor and said chipset; wherein

17           said normal operation mode and said exclusive  
18   operational mode are selected between by said interface  
19   section having executed a wake-up instruction; and

20           when said exclusive operational mode is  
21   terminated, the information-processing device goes to  
22   its pre-start-up state, either said power-off state or  
23   said suspend state.

1           2. An information-processing device as set forth in  
2 claim 1, characterized in that data changed in the exclusive  
3 operational mode and data change recognition flags  
4 indicating data has been changed are stored in a  
5 predetermined memory area different from a memory area for  
6 storing data used in the normal operation mode.

1           3. An information-processing device as set forth in  
2 claim 1, characterized in that:

3           start-up time is shorter and power consumption is lower  
4 for said exclusive operational mode than for said normal  
5 operational mode; and further

6           said normal operation mode and said exclusive  
7 operational mode are started up selectively or exclusively.

1           4. An information-processing device as set forth in  
2 claim 1, characterized in being configured to select the  
3 exclusive operational mode, and to supply operational power  
4 to and perform information processing on only resources used  
5 in the exclusive operational mode, when the information-  
6 processing device is started up from a designated said  
7 interface unit or said input/output device.

1           5. An information-processing device according to claim  
2 1, characterized in having:

3           an operation system for said normal operation mode, and  
4           an operation system for said exclusive operational  
5 mode;

6 the information-processing device therein being  
7 configured to switch between said operation system for the  
8 normal operation mode and said operation system for the  
9 exclusive operational mode according to conditions for  
10 starting-up from said power-off state and said suspend  
11 state.

1 6. An information-processing device as set forth in  
2 claim 5, characterized in that the designated said interface  
3 unit is provided with a radio transmission-reception  
4 function;

5 the information-processing device therein being  
6 configured to set an exclusive operational mode flag when  
7 the designated said interface unit via the radio  
8 transmission-reception function receives a wake-up signal in  
9 the suspend state, for causing a start-up process for said  
10 operation system for said exclusive operational mode to be  
11 carried out.

1 7. An information-processing device configured for  
2 selectively use-enabling functional units thereof from  
3 operationally stopped power-off or suspended states, the  
4 information processing device comprising:

5 at least one interface section enabling a wake-up  
6 instruction for starting-up the functional units of the  
7 information-processing device from the power-off or  
8 suspended states;

9 a man-machine interface;  
10 a memory;  
11 a processor; and  
12 a chipset connecting the interface section, the man-  
13 machine interface, the memory and the processor, said  
14 chipset in cooperation with said memory and said processor  
15 having a bus control function for bringing operational mode  
16 of the information-processing device functional units when  
17 started up from either said power-off state or said suspend  
18 state into one of  
19 a normal operational mode use-enabling the  
20 functional units in their entirety including the man-  
21 machine interface, and  
22 an exclusive operational mode use-enabling some of  
23 the functional units on starting up from either said  
24 power-off state or said suspend state, including said  
25 interface section having executed a wake-up  
26 instruction, said memory, said processor and said  
27 chipset; wherein  
28 said interface section executing a wake-up  
29 instruction selects between said normal operation mode  
30 and said exclusive operational mode; and  
31 when said exclusive operational mode is  
32 terminated, the information-processing device goes to

33 one of said power-off state and said suspend state as  
34 its pre-start-up state.

1 8. An information-processing device configured with  
2 interface units, input/output devices, memory, a display  
3 unit and a central processing unit, connected by a chipset  
4 having a bus control function, wherein  
5 operational mode when the information-processing device  
6 is started up from either said power-off state or said  
7 suspend state being a normal operation mode use-enabling  
8 functions of the information-processing device in their  
9 entirety as information processing functions, or an  
10 exclusive operational mode use-enabling some functions of  
11 the information-processing device as information processing  
12 functions; the information-processing device therein  
13 characterized in that:

14 said normal operation mode and said exclusive  
15 operational mode are selected between according to start-up  
16 conditions.

1 9. An information-processing device as set forth in  
2 claim 8, characterized in that data changed in the exclusive  
3 operational mode and data change recognition flags  
4 indicating data has been changed are stored in a  
5 predetermined memory area different from a memory area for  
6 storing data used in the normal operation mode.

1        10. An information-processing device as set forth in  
2 claim 8, characterized in that:

3        start-up time is shorter and power consumption is lower  
4 for said exclusive operational mode than for said normal  
5 operational mode; and further

6        said normal operation mode and said exclusive  
7 operational mode are started up selectively or exclusively.

1        11. An information-processing device as set forth in  
2 claim 8, characterized in being configured to select the  
3 exclusive operational mode, and to supply operational power  
4 to and perform information processing on only resources used  
5 in the exclusive operational mode, when the information-  
6 processing device is started up from a designated said  
7 interface unit or said input/output device.

1        12. An information-processing device according to claim  
2 8, characterized in having:

3        an operation system for said normal operation mode, and  
4        an operation system for said exclusive operational  
5 mode;

6        the information-processing device therein being  
7 configured to switch between said operation system for the  
8 normal operation mode and said operation system for the  
9 exclusive operational mode according to conditions for  
10 starting-up from said power-off state and said suspend  
11 state.

1        13. An information-processing device as set forth in  
2 claim 12, characterized in that the designated said  
3 interface unit is provided with a radio transmission-  
4 reception function;

5        the information-processing device therein being  
6 configured to set an exclusive operational mode flag when  
7 the designated said interface unit via the radio  
8 transmission-reception function receives a wake-up signal in  
9 the suspend state, for causing a start-up process for said  
10 operation system for said exclusive operational mode to be  
11 carried out.

1        14. A control method for an information-processing  
2 device configured with interface units, an input/output  
3 devices, a memory, a display unit and a central processing  
4 unit, connected by a chipset having a bus control function,  
5 characterized in that

6        operational mode when the information-processing device  
7 is started up from either said power-off state or said  
8 suspend state goes into a normal operation mode use-enabling  
9 functions in their entirety as information processing  
10 functions, or into an exclusive operational mode use-  
11 enabling some functions as information processing functions;  
12 the control method therein including the step of:

13        selecting between said normal operation mode and said  
14 exclusive operational mode according to start-up conditions.

1 15. An information-processing device control method as  
2 set forth in claim 14, wherein:

3 said exclusive operational mode is selected according  
4 to start-up conditions from a designated said interface unit  
5 or said input/output device;

6 the control method therein further characterized in  
7 including the step of executing information processing in  
8 accordance with said start-up conditions.

1 16. An information-processing device control method as  
2 set forth in claim 14, wherein:

3 the information-processing device has an operation  
4 system for said normal operation mode, and an operation  
5 system for said exclusive operational mode;

6 the control method therein further characterized in  
7 including the step of control-switching between said  
8 operation system for the normal operation mode and said  
9 operation system for the exclusive operational mode  
10 according to conditions for starting-up from said power-off  
11 state and said suspend state.

1 17. A recording medium storing a control program for an  
2 information-processing device configured with interface  
3 units, input/output devices, memory, a display unit and a  
4 central processing unit, connected by a chipset having a bus  
5 control function, the control-program storing recording



6 medium characterized in that thereon is stored a control  
7 program including:

8 a process for executing a normal operation mode use-  
9 enabling functions of the information-processing device in  
10 their entirety as information processing functions;

11 a process for executing an exclusive operational mode  
12 use-enabling some functions of the information-processing  
13 device as information processing functions; and

14 a process for selecting said normal operation mode  
15 according to normal start-up conditions when the  
16 information-processing device is started up from either a  
17 power-off state or a suspend state, and for selecting said  
18 exclusive operational mode according to start-up conditions  
19 from a designated said interface unit or said input/output  
20 device.

1 18. An information-processing device configured with  
2 interface units, input/output devices, memory, a display  
3 unit and a central processing unit, connected by a chipset  
4 having a bus control function, characterized by:

5 means for executing a normal operation mode use-  
6 enabling functions of the information-processing device in  
7 their entirety as information processing functions;

8 means for executing an exclusive operational mode use-  
9 enabling some functions of the information-processing device  
10 as information processing functions; and

11 means for selecting said normal operation mode  
12 according to normal start-up conditions when the  
13 information-processing device is started up from either a  
14 power-off state or a suspend state, and for selecting said  
15 exclusive operational mode according to start-up conditions  
16 from a designated said interface unit or said input/output  
17 device.

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